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## 1 Tarzan: a peer-to-peer anonymizing network layer

[Michael J. Freedman, Shantanu Dutta](#)  
 November 2002 **CCS '02: Proceedings of the 9th ACM conference on Computer and communications security**

 Publisher: ACM [Request Permissions](#)

 Full text available [PDF](#) (242.72 KB)

 Additional Information: [Full citation](#), [Abstract](#), [References](#), [Index Terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 124, Downloads (Overall): 1467, Citation Count: 72

Tarzan is a peer-to-peer anonymous IP network overlay. Because it provides IP service, Tarzan is general-purpose and transparent to applications. Organized as a decentralized peer-to-peer overlay, Tarzan is fault-tolerant, highly scalable, and easy to ...

Keywords: IP tunnels, anonymity, cover traffic, distributed trust, mix-nets, overlay networks, peer-to-peer

## 2 Mitigating application-level denial of service attacks on Web servers: A client-transparent approach

[Mudhakar Sivasubramanian, Arun Jayaram, Jian Yin, Ling Liu](#)

 July 2008 **Transactions on the Web (TWEB)**, Volume 2 Issue 3

 Publisher: ACM [Request Permissions](#)

 Full text available [PDF](#) (516.74 KB)

 Additional Information: [Full citation](#), [Abstract](#), [References](#), [Index Terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 296, Downloads (Overall): 997, Citation Count: 0

Recently, we have seen increasing numbers of denial of service (DoS) attacks against online services and Web applications either for extortion reasons or for impairing and even disabling the competition. These DoS attacks have increasingly targeted the ...

Keywords: DoS Attacks, Web servers, client transparency, game theory

## 3 Mobility as an integrated service through the use of naming

[S. Atkinson, S. Bhatt, S. Balas](#)

 August 2007 **MobiArch '07: Proceedings of 2nd ACM/IEEE international workshop on Mobility in the evolving internet architecture**

 Publisher: ACM [Request Permissions](#)

 Full text available [PDF](#) (371.90 KB)

 Additional Information: [Full citation](#), [Abstract](#), [References](#), [Index Terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 32, Downloads (Overall): 101, Citation Count: 1

As Mobile IP is deployed, so the requirements for its deployment evolve, reflecting the actual use of IP networks today. This includes the ability to use Mobile IP with IPsec, NATs and multi-homed networks. Furthermore, new requirements arise as people ...

Keywords: addressing, identifier, locator, mobility, naming, routing

## 4 Adopting IMS in Wi-Fi technology

[Meiridi Mani, Noel Crespo](#)

 September 2007 **Mobility '07: Proceedings of the 4th international conference on mobile technology, applications, and systems and the 1st international symposium on Computer human interaction in mobile technology**

Publisher: ACM

 Full text available [PDF](#) (591.77 KB)

 Additional Information: [Full citation](#), [Abstract](#), [References](#), [Index Terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 101, Downloads (Overall): 272, Citation Count: 0

IP Multimedia Subsystem which is standardized by 3GPP is an important step to improve the delivery of innovating IP Telephony and Multimedia services to the customers in 3G and B3G networks. However, IMS is almost access independent and multiple access ...

Keywords: IMS, horizontal convergence and IP telephony

## 5 An end-middle-end approach to connection establishment

[Salim Chittu, Paul Francis](#)

-  August 2007 **SIGCOMM '07: Proceedings of the 2007 conference on Applications, technologies, architectures, and protocols for computer communications**  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available  [PDF](#) (893.87 KB) **Additional Information:** [Full citation](#), [abstract](#), [references](#), [index terms](#)  
**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 106, Downloads (Overall): 587, Citation Count: 4

The current model for flow establishment in the Internet: DNS Names, IP addresses, and transport ports, is inadequate. Not all of the problem is due to the small IPv4 address space and resulting NAT boxes. Even where global addresses exist, firewalls ...

**Keywords:** NUTSS, end-middle-end, off-path, on-path, signaling

Also published in:

October 2007 **SIGCOMM Computer Communication Review** Volume 37 Issue 4

6 **MobileNAT: a new technique for mobility across heterogeneous address spaces**

 [Milind Buddhihikot](#), [Anwesha Hazi](#), [Kundan Singh](#), [Scott Miller](#)

June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3

**Publisher:** Kluwer Academic Publishers

Full text available  [PDF](#) (160 MB)

**Additional Information:** [Full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 36, Downloads (Overall): 374, Citation Count: 2

We propose a new network layer mobility architecture called MOBILENAT to efficiently support micro and macro mobility in and across heterogeneous address spaces common in emerging public networks. The key ideas in this architecture are as follows: (1) ...

**Keywords:** MOBILENAT, design, experimentation, mobility

7 **MobileNAT: a new technique for mobility across heterogeneous address spaces**

 [Milind Buddhihikot](#), [Anwesha Hazi](#), [Kundan Singh](#), [Scott Miller](#)

September 2003 **WMASH '03: Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots**

**Publisher:** ACM  [Request Permissions](#)

Full text available  [PDF](#) (303.26 KB)


**Additional Information:** [Full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 18, Downloads (Overall): 1004, Citation Count: 1

We propose a new network layer mobility architecture called MobileNAT to efficiently support micro and macro mobility in and across heterogeneous address spaces common in emerging public networks. The key ideas in this architecture are as follows: (1) ...

**Keywords:** MobileNAT, mobility

8 **Towards an active network architecture**

 [David L. Tennenhouse](#), [David J. Wetherall](#)

October 2007 **SIGCOMM Computer Communication Review**, Volume 37 Issue 5

**Publisher:** ACM


Full text available  [PDF](#) (143.46 KB)

**Additional Information:** [Full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 267, Downloads (Overall): 791, Citation Count: 1

Active networks allow their users to inject customized programs into the nodes of the network. An extreme case, in which we are most interested, replaces packets with "capsules" -- program fragments that are executed at each network router/switch they ...

9 **The design and evaluation of an end-to-end handoff management protocol**

 [Amotz Gidon](#), [Vikram Magiseti](#)

January 2007 **Wireless Networks**, Volume 13 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available  [PDF](#) (743.37 KB)

**Additional Information:** [Full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 46, Downloads (Overall): 610, Citation Count: 1

We introduce an efficient protocol for end-to-end handoff management in heterogeneous wireless IP-based networks. The protocol is based on the stream control transmission protocol (SCTP), and employs a soft-handoff mechanism that uses end-to-end semantics ...

**Keywords:** IEEE 802.11, SCTP, mobile IP, mobility management, wireless LAN

10 **Steps towards a DoS-resistant internet architecture**

 [Mark Handley](#), [Adam Greenhalgh](#)

August 2004 **FDNA '04: Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture**

**Publisher:** ACM [Request Permissions](#)

Full text available [PDF](#) (120.88 KB)

Additional Information: [Full Citation](#), [Abstract](#), [References](#), [CiteMe](#), [Index Terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 93, Downloads (Overall): 1220, Citation Count: 10

Defending against DoS attacks is extremely difficult; effective solutions probably require significant changes to the Internet architecture. We present a series of architectural changes aimed at preventing most flooding DoS attacks, and making the remaining ...

**Keywords:** denial-of-service, internet, network architecture, security

# 11 Census and survey of the visible internet

[John Heidemann](#), [Yusuf Baccin](#), [Panagiotis Christos Papadopoulos](#), [Giovanna Bartlett](#), [Joseph Bannister](#)  
October 2008 **IMC '08: Proceedings of the 8th ACM SIGCOMM conference on Internet measurement**

**Publisher:** ACM [Request Permissions](#)

Full text available [PDF](#) (893.15 KB)

Additional Information: [Full Citation](#), [Abstract](#), [References](#), [Index Terms](#)

**Bibliometrics:** Downloads (6 Weeks): 31, Downloads (12 Months): 259, Downloads (Overall): 636, Citation Count: 1

Prior measurement studies of the Internet have explored traffic and topology, but have largely ignored edge hosts. While the number of Internet hosts is very large, and many are hidden behind firewalls or in private address space, there is much to be ...

**Keywords:** census, firewalls, internet address allocation, ipv4, survey

# 12 A system for authenticated policy-compliant routing

[Barath Raghavan](#), [Alex C. Snoeren](#)

August 2004 **SIGCOMM '04: Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications**

**Publisher:** ACM [Request Permissions](#)

Full text available [PDF](#) (219.77 KB)

Additional Information: [Full Citation](#), [Abstract](#), [References](#), [CiteMe](#), [Index Terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 46, Downloads (Overall): 522, Citation Count: 17

Internet end users and ISPs alike have little control over how packets are routed outside of their own AS, restricting their ability to achieve levels of performance, reliability, and utility that might otherwise be attained. While researchers have proposed ...

**Keywords:** authentication, capabilities, overlay networks, source routing

Also published in:

August 2004 **SIGCOMM Computer Communication Review** Volume 34 Issue 4

# 13 NIRA: a new inter-domain routing architecture

[Kazuo Yano](#), [David Black](#), [Arthur W. Berger](#)

August 2007 **IEEE/ACM Transactions on Networking (TON)**, Volume 15 Issue 4

**Publisher:** IEEE Press

Full text available [PDF](#) (757.72 KB)

Additional Information: [Full Citation](#), [Abstract](#), [References](#), [Index Terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 121, Downloads (Overall): 501, Citation Count: 11

In today's Internet, users can choose their local Internet service providers (ISPs), but once their packets have entered the network, they have little control over the overall routes their packets take. Giving a user the ability to choose between provider-level ...

**Keywords:** inter-domain routing, internet architecture, routing, source routing, user-controlled routing

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